

R.T. Abbott
Field Record Book
April - October 1945
Sta. Nos. 105-256
(NAMRU-2)

R.T. Abbott

FIELD BOOK

NAMRU-2

DATA Guam Isl.

Pacific Navy War Trip
1945

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105 Small stream 8400 yds 350° from
tip of Kagman Pt and anal 110° from
Mani^a also Id, on east central coast of
Saipan Id, Marianas. April 13, 1945
(just south of 39th General Hospital)

Portula along bank on trees. 100 yds from
beach

105 b 100 yds from beach, south
bank. Portula abundant

Id,

106 Stream 2550 yds. 347° from tip of
Kagman point and 117° from
Maniagassad, on east coast of Saipan,
Marianas. April ~~14~~ 13, 1945

107 Western shore of Lake Susupe, Saipan Id.,
Marianas. April ~~14~~ 13, 1945

108 Mark on east shores of Lake Susupe,
Saipan Id., Marianas. Apr. 14, 1945
13

109 Nickelson Spring, 2000 yds 98° from
Mt. Tapotchau and 136° from
Kagman Point, central Saipan Id.,
Marianas. Apr. 14, 1945
13

110 Natural Bridge Spring #1, central
Saipan Id., Marianas. Apr. ~~15~~¹⁴, 1945

111 Donnay Spring, $\frac{1}{2}$ mi. north east of
Natural Bridge, central Saipan Id.,
Marianas. Apr. ~~14~~¹⁵, 1945

112 Small stream, 3000 yds bearing 080° from
Flores Point, Tanapag Harbor,
Saipan Id., Marianas. Apr. ~~14~~¹⁵, 1945

113 Lily Pond, N.E. end of Tanapag Harbor.
on Naval Air Base, Saipan Id., Marianas
April 14, 1945

114 Swamp, 4200 yds N.E. of Tanapag
Harbor, western Saipan Id., Mariana
Apr. 14, 1945

115 Hill near road, 7100 yds bearing 83°
from Maniagassa Id. and 352° from
Kagman Pt. Saipan Id., Marianas.
April 14, 1945
dead Land only

116 Grove 12000 yds bearing 358°
from Kagman Pt. and 85° from
Maniagassa Id., northern Saipan
Id., Marianas. Apr. 14, 1945
Portula and soil sample

117 Hill slope 2100 yds bearing 135° from
Flores Point, Tanapag Harbor, Saipan
Id., Marianas. Apr. 14, 1945.
Small land shells under damp rocks and
Portula.

117b Portula 200 feet east of 117

118 Hill slope 2000 yds bearing 130°
from Flores Point, Tanapag Harbor,
Saipan Id., Marianas. Apr 15, 1945
Portula. 500 yds northeast of #117

119 Easternmost peak of Mount
Tapotchau, Saipan Id., Marianas
Apr. 15, 1945.

Partula

120 Chalan Kanoa Beach, western
Saipan Id., Marianas. Apr. 15, 1945

Recreational collecting

121 Gulley, north end of Magicienne Bay,
bearing 292° , 4500 yds from Kagman
Pt., eastern Saipan Id., Marianas
Lymnaea & Partula Apr. 16, 1945

122 Westernmost gulley south side of
Kagman Pt., eastern Saipan Id.,
Marianas. Apr. 16, 1945

Partula
Stream dry.

123 Highest hill on Kagman Point,
eastern Saipan Id., Marianas.
Apr. 16, 1945

124 Jap Shrine, bearing 232° , 2900 yds from
Tsukimi Id., northern Saipan Id.,
Marianas. Apr. 16, 1945
and 198° from from Marpi Pt.

125 West side of first hill southwest
of Mount Marpi, northern Saipan
Id., Marianas. Apr. 16, 1945

3 Partula only

126 Northwest crest of Mount Marpi,
northern Saipan Id., Mariana
Apr. 16, 1945

127. Cove Beach, east coast of northern
Saipan Id., Marianas.
bearing $\approx 50^\circ$ 4400 yds from Tsukimi Id.
Apr. 16, 1945

Teuthis & Littorina

128 Brackish spring, bearing 053° 1500
yds from Agingan Point, southwest
Saipan Id., Marianas. Apr. 17, 1945
NO SNAILS

129

Ridge, bearing 021° , 2600 yds from
 south peak of Mt. Tapotschan, and 102°
 from Nutchu Point, Saipan Id.,
 Marianas. Apr. 17, 1945
Portula abundant

130

Marpo Valley, southern Tinian
 Id., Marianas. Apr. 18, 1945.

131

Lake Hagoi, northwest
Marianas. Apr. 18, 1945

Tinian Id.,

132

Pilgo River, 1100 yds up stream
from mouth, Agaña Bay area,
Guam Id., Marianas. Apr. 21,
1945

Lymnaea (*Foreasia*) *stellula* Old.
Common. No other F.W. shells.
Stream with slight flow, 2-3
feet across, 1-3 inch deep.
Occasional rapids. Water clear.
Stagnant pools present. High
banks. *Pustula ruficollis* Pffe.

133 Pilgo River, 3000 yds up stream
from mouth, Agaña Bay area,
Guam Id., Marianas. Apr 21, 1945

No freshwater mollusks. Stream
narrower but healthier & swift.
Batala notivola

134 Marsh behind Agaña, western
Guam Id., Marianas. Apr. 22, 1945

Melania (*Plotia*) *scabra* uncommon
Lymnaea (*Fossaria*) *olhula* common
River in back of town devoid of shells.

135

Agana Spring, $1\frac{1}{2}$ mi. S.E. of Agana,
Guam Island, Marianas. Apr. 22, 1945

Melania (*Tarebia*) *granifera* very
abundant in spring and slenthuway.
Lymnaea (*Fossaria*) *olhula*, young
common.

136

Stream 600 yds south of Asan,
western Guam Id., Marianas. Apr. 24

Reinhardtia, two species present.
farther up stream where flow of
water is swift. Water coolish.
Depth approx 100 ft. Collected by
man-made cement small dam.

137 First stream, 600 yds south of Piti,
western Guam Id (Cabrada area),
Marianas. Apr. 24

Melania granifera marianarum <
abundant 200 ft north of road.
Stream small warm sluggish.
Collected in shaggy area, one inch
of water. Old dam not working.

138 Aguada River, 100 yds from mouth,
western Guam Id, Marianas. Apr. 24.

Same. Flow a little greater

139

northern branch, 100 yds from mouth of
Tengio River, western Guam, Marianas
Small quick flow, Apr 24.
Cool water, little shade, ^{solid} rock bottom

Melania scabra 2 specimens

140

1 mile up Namo River, near Agat,
western Guam Id., Marianas.
April 24, 1945.

141 Page River, 1 mile up stream,
eastern Guam Isl., Marianas
April 26, 1945

Stream 6 feet wide. Flow swift.
water coolish.

142 Water Plant, Ylig River, 2 miles
up stream, eastern Guam Isl.,
Marianas. April 26, 1945

Stream fast, 6 feet wide, 6" deep.
water cool

143 Bridge over Talisai Stream, 2 miles S.E.
of Agat, western Guam, Marianas.
May 1

144 1/2 mile up Inarajan River, S.E.
Guam Id., Marianas
May 2

145

Swamp $2\frac{1}{2}$ miles S. E. of Agaña,
central Guam Id., Marianas.

May 3

146

$\frac{1}{2}$ mile north of Dededo, Northern
Guam Id.

May 4, 1945

147 2 miles southeast of Depot Field,
No. Guam Id.
May 4, 1945

148 5 miles south of Ritidian Pt.,
northern Guam Id., Marianas.
May 4, 1945

149 Near Letecjan, ~~2 1/2~~ miles southeast of
Ritidian Pt., northern Guam Id.
May 6, 1945

[May 8, 1945, was V-E day]

150 First Stream east of Gens. River,
opposite Pt. Manell, southern Guam.
Lymnaea olivula only
May 10, 1945

151 Umatac River, behind Umatac.
Bay, S.W. Guam Id.
May 10, 1945
Melania & Neritina abundant

152 La Sa Fua River, 1 mile upstream
north of Umatac Bay, S.W. Guam Id.
Marianas
May 10, 1945
Melania & Neritina abundant

153

Creek on west side of Santa Rosa Peak,
N.E. Guam Id., Marianas
May 13, 1945
no snails.

Land snails on east peak of Mt.

154

Binaharan River, $\frac{1}{2}$ mi. north of
Tanauan, eastern Leyte Id., Philippines
June 9, 1945

Melania and Neritina under bridge.
River clear, 5 feet x 2-3 feet, bottom
from muddy sand. "Tritons" and
Synca abundant out of water along
mud banks under shade of low Bermet
grass.

Tarebia granifera ~~not~~ found in shallow,
3-4 inch. water in quiet areas near
banks. Very common.

2 Univ. collected.

Water pH 7.5

Synca ① *A. habei*
② small brown *A. thielei*

A. boettgeri → ③ 4 bands

June 29 — ④ large, large indistinct band
⑤ very small, yellow orange, spiral rather
on open mud banks where grass is very sparse or absent. Heavy
3 & 2 & 1 in great abundance. *Hamfordi*
⑥ large Melania

155

Stream between Tibak and Santa Fe
3rd bridge west of Palo, Leyte Id., Philippines
June 10, 1945

156

1/2 mi. N.W. of Alangalang, roadside,
north central Leyte Id., Philippines
June 10, 1945

at roots of tall grass, wet mud.
S. quadras common

157 Creek at Gacao, 3 miles^S west of Palo,
 eastern Leyte, Philippines
 June 1945
 Water ph 7.5 to 7.8 (after mite rains)
 Study on *S. quacchasi* being made here
 from day to day.

Lymnaea
Melania
Pila
Gyraulus
Segnerina
Viviparus
"Pisidium"

(after no rain for two days at a place
 200 feet down the creek from the original
 place - Temp. 81°F ph 8.1)

King area S. of road
 Queen area N. of road

Field
 105-157
 sent to Bill
 Oct 26, 1945

158 4 miles east of Dagami, 400 yds south
 of Binahaan River, eastern Leyte Id.,
 Philippines June 17, 1945

S. quacchasi
Myxas
Viviparus
Gyraulus
Segnerina
Lymnaea
Bulinus

Melania at B. center edge of
 river. Water flow 6 knots.
 Ph 7.8, Temp. 81°F at center
 of river. Soft black sand
 bottom. River 50' x 1-3'.
 Banks muddy, tall reeds, steep.
 (158a 5)



□ □ □

158a
 Binahaan R.
 4 miles EIVE of
 Dagami

(158) marshy

159 SW. outskirts of Dagami, near Rice
field, Leyte Id., Philippines June 17
1945

S. quadricornis

Myxas

Lymnaea

Viviparus

Segmentina

160 San Isidro, 4 miles ENE of
Dagami, 2 miles north of Binakaan River,
Leyte Id., Philippines June 17, 1945

S. quadricornis common

Viviparus

Segmentina, *Lymnaea*, *Melania*

Low area in between two grass
pastures. Ph of water 7.5. Temp. 85°F
water 1 foot deep, "permanent", fairly
clear. *S. q.* on grass stem 1/4 to 1" out
of water. No *S. q.* in pasture or in
deep carbon wallows.
Ditch area shaded by trees.

161 Palo River, between 2 bridges out
Palo City, Leyte Id. Philippines
June 19, 1945

c c
c (C) no Syncera
c
c 2nd Bridge
30 foot falls

PALO

(B) Syncera
abundant S → N

(A) 1st Bridge → to Tacloban

(A) Just above 1st bridge. Syncera on moist
compact earth under deep matted grass
from water's edge back up the bank for
10 feet. Also on inside of old sunken
outriggers. Temp in grass next Earth
78°F. PH of water at banks 8.0

Syncera
not abundant.

(D)

162 Cancabato River, bridge at
Bucayan, N.E. Leyte Id., Philippines
June 19, 1945

Centrolides A. boettgeri Abbott
A. blanfordi

Syncera (3 species) A. schmitzneri

Estuarine - mud - mangroves.

1 Syncera with spiral sculpturing - heavy!

Sermyla

Any Syncera & S. quadraxi that have preserved
soft shells underwent the following
treatment.

1. Stupified for 12 hours with a small
crystal of menthol on the surface of the
water.

2. Washed in water

3. Bouin's solution for 24 hours.

↓ Picric acid, glacial acetic acid, formaline

4. Washed in water

5. 35% alcohol 1 1/2 hours

6. 50% " 1 "

7. 70% " "

at Kabuyan

163 Guinaron River, bridge near
mouth, eastern Leyte Isl., Philippine
June 18, 1945 (north fork)

Syneca
Neritina ziczac L.

July 4, 1945 revisited. 50 feet west of bridge
on south bank *Stenothyrus* & unknown genus
found. Brackish pools in shade of young
coconut palms. Water still 6" deep,
bottom black mud, sticks leaves.

Stenothyrus & unknown in water on bottom
is underside of debris.

Stenothyrus same as those sent by
Ferguson to Bequaert - a new species.

164 1 mile west of Barrio of San Antonio,
S.W. Samar Isl., Philippines

(a) Small stagnant creek very small.
Tall grass, swampy. Earth reddish brown.
Only *Lymnaea*.

(b) 100 feet away; Small stream (2 feet
by 3"). Temp. 81°F. Current: 6 knots.
Ph 8.2. *Melania* on gravel and
gray silt bottom in quieter pools.

(opposite Tacloban, Leyte)

165 Estuary Creek, Binatac Point, S.W.
Samar Id., Philippines. June 21, 1945

Tidal, stagnant — mangroves.
Red *Synceira* on open mud flat
bordering creek. Black *Synceira*, *Melampus*
under bank and logs just beyond high
water mark. *Cerithiidea* common
on mud from water's edge back 5 feet.

(opposite Tacloban, Leyte)

A. philippina 165①

165⑤

A. crassitesta 165②

A. blanfordi 165④

166 Marsh 1/2 mile south of Mt. Danglay,
Binatac Point, S.W. Samar Id.,
Philippines. June 21, 1945

Marsh area draining south about
1 square mile. High grass (4 feet).
Much of the area is soggy with
numerous carbon wallows. Blue gray
mud. Temp of water 85°-90° F. pH 8.2
Melania (not collected) and *Viviparus*
(2 spec) common. No *S. guineensis*.

(opposite Tacloban, Leyte)

167 Layog River at bridge, 14 miles of road
west of Abugay, eastern central
Leyte Isl., Philippines. June 23, 1945

River 30' x 2' clear fast, rapid.
mountainous district.

Melania common. No heritina?

(eastern watershed)

168 Mountain streamlet, 4 miles east of
Gubang, on Abugay-Baybay road,
central Leyte Isl., Philippines.

Melania

Stream cool, 1 foot x 3". Shady gulch.
(western watershed.)

169

North bank of Pagbangaran River,
Baybay, western Leyte Id.,
Philippines June 23, 1945

Synceon, Neritina, Cerithidea, Estuaries

A. philippinica 169①

A. boettgeri 169②

170

1/4 mile below south bank of
Pagbangaran River in Baybay,
western Leyte Id., Philippines
June 23, 1945

Cerithidea abundant, Neritina, Synceon
Under trees, among houses.

170② = A. philippinica

170① = A. boettgeri

171 Marsh 1/2 mile S.E. of Baybay, western
Leyte Id., Philippines. June 23, 1945

(Pools at edge of field used for rice
in winter. Water 3" to 6" deep)

pH 7.5, Temp 85°F

Melania abundant. Few Viviparus
& Pila.

172 Pawongan River at bridge, 1 mile
east of Gubang, western Leyte Id.,
Philippines.

2 species of Melania (Tarebia) only
abundant

This river is very large & runs
directly into the Pagbazaragan that
flows past Baybay. Water clear,
flow fast, temp. 82°F, pH 7.6,
rock & sand bottom. The river
bed is about 1/4 mile wide
water 30 feet X 3-6 feet. Rapids
every 1/2 mile.

173

1/2 miles from mouth of
 Pogbangayan River, Baybay,
 Leyte Isl., Philippines. June 23, 1945

Syncaea collected only.

A. philippinica

A. boettgeri

173 (1)

174

1/2 mile east of Hitomnog,
 Dagami area, eastern Leyte Isl.,
 Philippines. June 25, 1945.

Low country, *S. quadrata* in
 swamp grass near rice fields. No
 snails in rice paddies, only on the
 ditch edges.

To the west 1/2 mile the country
 rises into the hills & no *S. g.* found
 beyond this point.

175 Stream, 1 mile north of Habangan,
Dagami area, eastern Leyte Isl.,
Philippines. June 25, 1945

No S.g.

Melania

Brodia

Viviparus!

Ph 7.4

Temp. 78°F

Flow swift

3' x 2'

banks steep.

Shady

soft sand + mud

176 Beach at Tacloban, Leyte
June - 1945

Pool collection.

Water dirty

177 Valley below Kapangian 1 1/2 S.W.
of Talloban, Leyte Id., Philippines.
June 28, 1945

Low swampy area with no large
permanent creeks. A few permanent
pools in sedge-grass. *Melania*, *Myxas*,
Viviparus common. No S.G.

Ph 8.0 to 7.9. Temp. @ 0930 after long
night rain, cloudy - 84°F. (Black

A → animal *Myxas* along the edge of the
swamps.

In one small isolated pool 5 feet in
diam. & 3" deep, surrounded by high
grass there were about 100 *Myxas* - all
the same size and bodies brownish.
Ph 8.0. Temp @ 1000 88°F.

Viviparus abundant in certain permanent
mud bottomed pools. Temporary rain pools
& carbon mud wallows have no
snails.

This area not far above the sea level.

Dulag
(Luzon Id.)

see Army map Sheet 3
of 4 sheets

178 San Joaquin Estuary, San Joaquin,
eastern Leyte Id., Philippine Ids.
June 29, 1945

Synca Cerithiidae, red crabs.
brackish

① *A. boettgeri*

Ph 7.6

② *A. philippinensis*

Temp 81°F

③ *A. blanfordi*

④ *A. haberi*

⑤ 4-banded *Synca* also = *A. boettgeri*

⑥ *Stenothypa*

⑦ ⑧

Stenothypa etc.



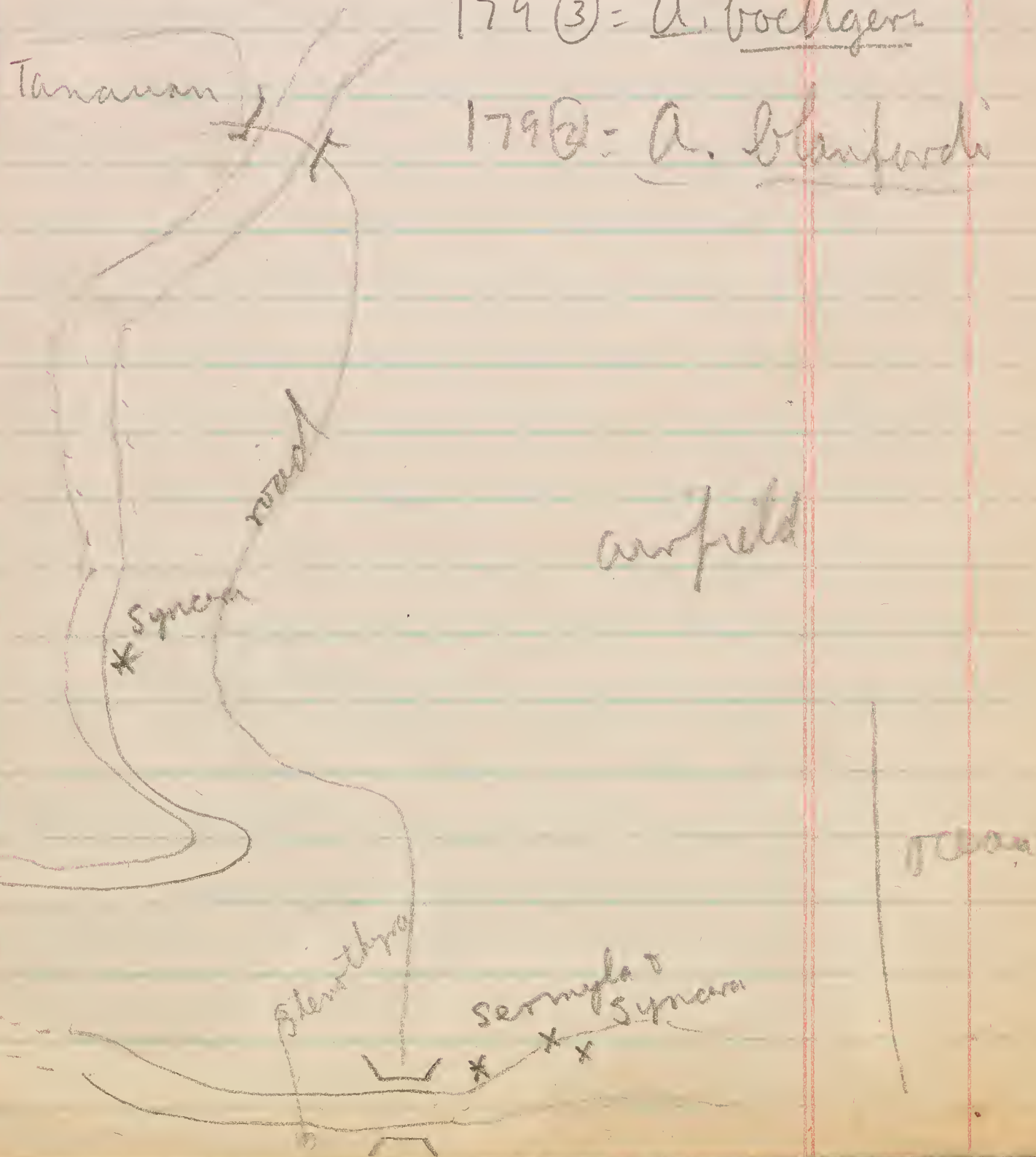
179. Estuary 2 miles south of Tanauan and west side of airfield, Leyte Id., Philippines. July 4, 1945

Syncaea (only *A. kabei* Abbott)

Sermyla on mud flats out in the open, & half burrowed into moist green algae. *Leptina* (small spec.) very abundant with *Sermyla*.

179 (3) = *A. boettgeri*

179 (2) = *A. blanfordi*



180 South fork, Guinaraona R., at Telagrafo, eastern Leyte Id., Philippines.

July 4, 1945

Myxas, Melania

Stenothyna on ~~west~~ west side of bridge

181 Labiranan River estuary, Dulag area,
eastern Leyte Isl., Philippines.

July 4, 1945

Entire area with putrid, oily water.
Heritina, 2 spec. Synesira, 1 Melampus.
No S.g. 1 mi S. in fresh water swamp.

182 1 mile north of Buranan, Leyte Isl.,
Philippines

S. quadrasi abundant near road in
running streams draining large areas of
rice fields. Found at base of tall
thick cane-like grass. No S.g. in
rice paddies. P.H. 7.2. Temp. 81°F.

183 Brook 1/2 mile S.E. of Napuro,
western Samar Id., Philippines

July 7, 1945

Drains into rice fields & grass & sedges.

Melanoides Stenamelania, Lymnaea, one
large land shell.

184

Stream just east of Napuro,
western Samar, July 7, 1945

Stenamelania (Kastula?), Ph 8.2

Temp. 80°F. Steep banks.

185 Beach at Santa Margarita, western
Samar Id., Philippines. July 7, 1945

186 Nadang valley, 2.1 miles N.E. of
Ogucendo on Route #1, N.W. Samar
Id., Philippines July 8.
O. (s.) quadrasi edge of rice fields
PH 8.2, Temp. 8.4° F Hyphantis,
Pisidium, Univ from nearby river.
July 16

187 Creek at Magubay $\frac{1}{2}$ mile from
Oguendo River on Route #1, N.W. Samar
Id., Philippines. July 8, 1945

188 2 miles N.N.E. of Inoragyo,
western Samar Id., Philippines
July 8, 1945

189 Forest brook 1/2 mile N. of Gandara west
of river, N.W. Samar Isl., Philippines
July 9, 1945.
Neotoma

190. Small stream nr. San Miguel,
south of Gandara, N.W. Samar
Isl., Philippines. July 10, 1945.

(2 streams A & B 300 yds apart)
west east

191 West outskirts of Gandara, N.W.
Samar Id., Philippines. July 10, 1945
O. (s.) quadrasi. Ph 8.0 to 8.1. Temp.
88°F.

(A) center of field under tree. small pools,
little drainage.

(B) west side of field, running water.

San Miguel
192 2 miles south of Gandara, N.W.
Samar Id., Philippines July 10,
1945.

S. quadrasi. Lymnaea nearby in
another small pool but no S. g.

193

Beach south of Calbayog, N.W.
Samar Id., Philippines, July 11, 1945.

194

Rice Valley behind Santa
Margarita, N.W. Samar Id.
Philippines, July 11, 1945. Melania
& Pils only. Also Synsira

7 rats examined 4 neg. 3 pos. for
Schisto.

A. philippinica

A. crossiata Btg.

195. Estuary at Bugko, N. Samar Isl.,
Philippines, July 16, 1945. *Syncaea*
under rocks at low tide.

Neritina

A. philippinica

196 Estuary at Bantayan River,
N. Samar Isl., Philippines. July
16, 1945. *Syncaea* on wet logs.

A. philippinica

197

Estuary at Catarman, N. Samar
Id., Philippines. July 1st, 1945.
Syncaea.

197 (a) = A. philippinica
A. boettgeri

198

Cabulatan valley, 3 miles
west of Bayog, Laoang District,
N.E. Samar Id., Philippines July 13
S. quadratus on rim of valley.
July 17.

(Catubic River Drainage)

199

Laranga Island, N.E. Samar Isl.,
Philippines. July 17, 1945

200

Malijao, Route #1, south of
Cataman, N. Samar Isl., Philippines
July 19, 1945. (S. quadrata west
side of road.)

201 Cervantes, 20 km south of
Catagan, central N.W. Samar
Isd., Philippines. July 19, 1945
Large land snails only.

202 Trinidad, 4 miles west of
Calbayog, N.W. Samar Isd.,
Philippines. July 19, 1945

Syncera

A. philippinica

203 2 miles west of Catagan, N.
Samar Isl., Philippines. July 18,
1945.

S. quadrasi

204 Catbalogan Beach, W. Samar
Isl., Philippines. July 20-21,
1945.

Melania behind town.

Meritina 1/2 mile south, near sea.
F.W. & marine

204A Purchased in Catbalogan, Cypraea
moneta & pinnulus from San Antonio,
Capul Isl. N.W. Samar.

Large Cassis also from Capul Isl.

205 north outskirts of Santa Fe, N.E. Leyte
Isl., Philippines, July 29, 1945

S. quadrum

Temp 79° F. H 7.4

[July 31 - Cruiser Indianapolis sunk east of Leyte
880 lost because report was not relayed to
headquarters]

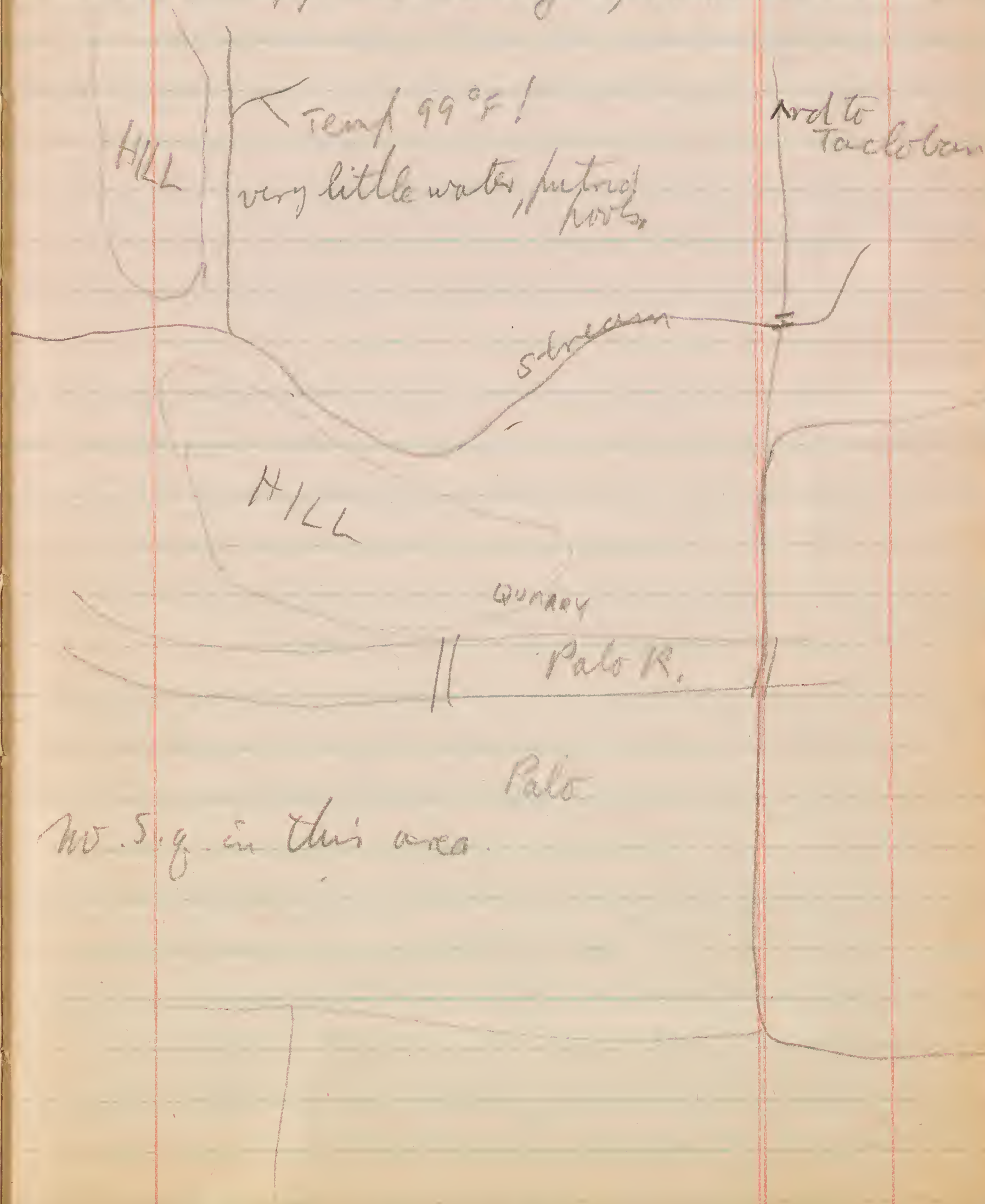
206 5 km N.W. of Basey, south west
Samar Isl. Philippines
Aug. 2, 1945
no S.g. in this area

207 San Miguel, northern Leyte Id.,
Philippines. Aug. 3, 1945

Pala.

no S.g. in this area

208 1/2 mile north of Palo, N.E. Leyte Id.,
Philippines. Aug. 4, 1945



209 Tigbao Barrio, 2½ miles east of
Tachoban, N.E. Leyte Id., Philippines
August 6, 1945

209① Tachia from wide shallow, rocks & pebble
bottom river (Tigbao) Temp in flats 155°F
(ovoviviparous)

209② Melanoids from small creek trickles
100 feet from & running into river
Mud bottom.

Rec'd from Col. Wright from Mindanao

Linabo, 40 mi. S.E. of Cagayan, north
central Mindanao. July 1945

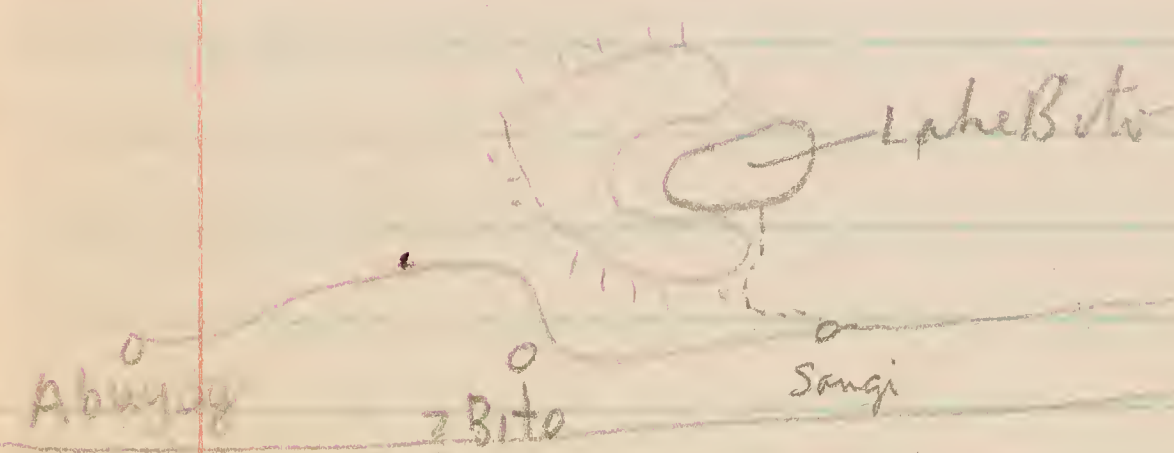
Malaybalay, 38 mi. S.E. of Cagayan,
north central Mindanao.

Calarig Barrio, 3 km. east of Lala,
Calanbangan Valley, S.E. of Cagayan.
Danzalan, 3 mi. S.E. of northern tip
of Lake Lanao, Mindanao.

Mintal, m. Davao, Mindanao

210 Lake Bito (Danao), Abuyog area,
eastern Leyte Id., Philippines
August 14, 1945

Pila viviparus melanica segmentaria



211 Abuyog, eastern Leyte Id., Phil. Ids.
August 14, 1945

2 species of *Stenothoe*
Synceira *a. boettgeri*; *a. blanfordi*
Cerithidea

no s.g. in area.

VJ day out here.

212 River at Burauen, Leyte Id., Philippines
Aug. 16.

① *Tarebia* 1
② *Melania*

213 Estuary at Ditt, 5 mi. n. w. of Tacloban,
Leyte Isl., Philippines. Aug 20, 1945

- ① Stenothyon
- ②

214 Stream, 1/2 mile n.w. of Jaro, Leyte
Valley, Leyte Isl., P.I. Aug. 27, 1945

No S.g.

- ① Brodia, Viviparus, Melania
- ↓ some had crawled up on rocks out of water.

215 Calibuyongan River, Jaro, Leyte
Valley, Leyte Id., Philippines.
August 27, 1945

① *Tarebia*, *Melania* ②

216

(#1)
(Mindanao)

Estuarine marsh behind Surigao, M.E.
Mindanao Id., Philippines. Aug. 29, '45

A large *Stenothyrus*, *Cerithidea*, *Melania*,
Viviparus & *Vermetus* farther inland, 1 mile.
Small pelecypod projects shell white
part or siphon

217
(#2) Surigao River, 2 mi. south of
Surigao, N.E. Mindanao, Philippine.
Aug. 29, 1945

Tarebia abundant. River 100 yds. wide,
3 feet deep, slow flow, mud-sand
bottom. Grass banks 5 feet high.
Not country for S.g.

218
(#3) Mag Payan River, 2 miles north of
Tubod, Lake Maginit region, N.E.
Mindanao Id., Philippine. Aug 31, '45
Tarebia, Viviparus.

219 - Between Tubod and Alegria (km post 42)
(#4) Lake Mainit drainage, N.E. Mindanao Isl.
Philippines. Aug. 31, 1945

Melania Bithynia in small, fast flowing
creek. S. quadras in flooded grass
slope area below road.

220
#5

1 mile N.E. of Mainit, Lake Mainit
drainage, N.E. Mindanao. Aug. 31, 1945

S. quadras near road in slow flowing
ditches.

221 Mainit, north end of Lake Mainit
(#6) N. E. Mindanao Id., Philippines. Aug 31, '45

Viviparus, Melania, Unio, Stenothyridae

222 Del Monte Camp, south of Cagayan
(#7) North central Mindanao, Philippines
Sept 5, 1945

Small land snail from sides of
wet rocks in small rushing brook.

223 Malababay barrio, central
(#8) Mindanao Isl, Philippines, Sept 6, '45

Tridacna, *Myxas*, *Bithymia*.

224 Bigo, Macajalar Bay, northern
(#9) Mindanao Isl, Philippines, Sept 10, '45

Nentus, *Malania*, *Pha Synnema*?

225 Iligan, northern Mindanao,
(#10) Philippines - Sept 11, 1945

Marine drift

226 2 mi S.E. of Davao City,
(#11) Lake Lanao, Mindanao Isl., Phil. Is.
Sept 11, 1945

S. quadrum in grass + 6" water in
ditch 3 feet deep, 2 feet wide, slow
flow from road to lake's edge.

Viniferus

227 Davao City, Lake Lanao,
#(12) Mindanao Id., Philippines. Sept 11, '45

Viviparus, melanis, "Bolithynis"

228 3 miles S.E. of Davao City,
#(13) creek 1 mi. from Lake Lanao,
Mindanao Id., Philippines. Sept 11, '45

229 Dapitan Bay, N.W. Mindanao Isl.,
Philippines. Sept 12, 1945

Tectarius, Trachus, Littorina & foot up
in palm leaves, Melania from hill creek

230 San Razon, 17 km. N.W. of
Zamboanga, Mindanao, Philippines

Stettl, Ag.

231 Beach at Zamboanga, S.W. Mindanao
Philippines, Sept. 13, 1945

Beach drift.

232 Limbukan Barrio, 2 1/2 miles west of
Tolosa, Leyte Valley, Leyte Isl., Philippines
Sept. 14, 1945

S. guineensis in grassy area 1/4 mi. west
of Barrio. 50 feet from water but 2 feet h.

91 adults examined, 1 found positive for
Schistosoma cercariae
= 1% snail infection

233

2 km north of Kananga, W. Leyte Id.,
Philippines. Sept. 17, 1945
Melania

234

4 km. south of Kananga W. Leyte Id.,
Philippines Sept 17, 1945.

235 Ormoc beach, western Leyte Id.,
Philippines. Sept. 17, 1945

Drift & live *Onchidium* on small rocks
on beach at
low tide.
Common.

236 Spid, south of Ormoc, western
Leyte Id., Philippines

F.W. in creek behind town.
Nautilus from children.

237 Ravine, 1/2 mile N.E. of Borac barrier,
western Leyte Isl., Philippines. Sept 18.

(behind D. hill)

238 Matagob (Dipi), ^{north} western Leyte Isl.,
Philippines Sept. 19, 1945

Tarbia & Stenolamia from river.
Myxas from pools in barrier.

239 Colasian barrio, Carigara Bay
north Leyte Isl., Philippines. Sept 19, '45

Stenothyra from small pool, intertidal
area of mangrove beach.

240 Balud, 1 mi. east of Capocoran,
Carigara Bay, north Leyte Isl. Philippines
Sept 19, 1945.

2 species *Stenothyra* south of road
among nipa palms. Brackish water.

241

Pagsangahan, 10 mi. N.W. of Ormoc,
N.W. Leyte Id., Philippines Sept. 19

242

1 mile S.E. of Digahongan, Dagami
area, Leyte Id., P.I. Sept. 27, 1945

S. g. abundant in creek

One of Mr. Mullen's experiment localities.

243 Brook, 3 mi. S.E. of Baguio Peak,
9 mi. N.W. of Tacloban, Leyte Id.,
Philippines Oct. 5, 1945

(Brooks & Melania in tiny mountain
brook 1" x 3". Rocky bottom, shaded.
Subject to flash floods.

Dactylus fide J. Bequaert

244 Guinan, S.E. Samar Id.,
Philippines
± Oct. 15, 1945

245 Tububao Island, Guaman Peninsula,
S.E. Samar Id., Philippines.

± Oct. 15, 1945

Syncera.

A. crassitesta.

MT. Alifan
complex of peaks →

246 S.E. side of 3rd peak 1600 yds south of
Mt. Alifan, western Guam Id., Marianas
Oct. 23, 1945

Partula salifana Crampton !!

" *fragilis*

" *gibba*

" *radiolata*



(see U SAFICPA April 1944 special
grid - Agat Bay, Island of Guam.)

247 600 yds due east of 2nd Peak 1200 yds
south of Mt. Alifan, western Guam Id.,
Marianas. Oct. 23, 1945

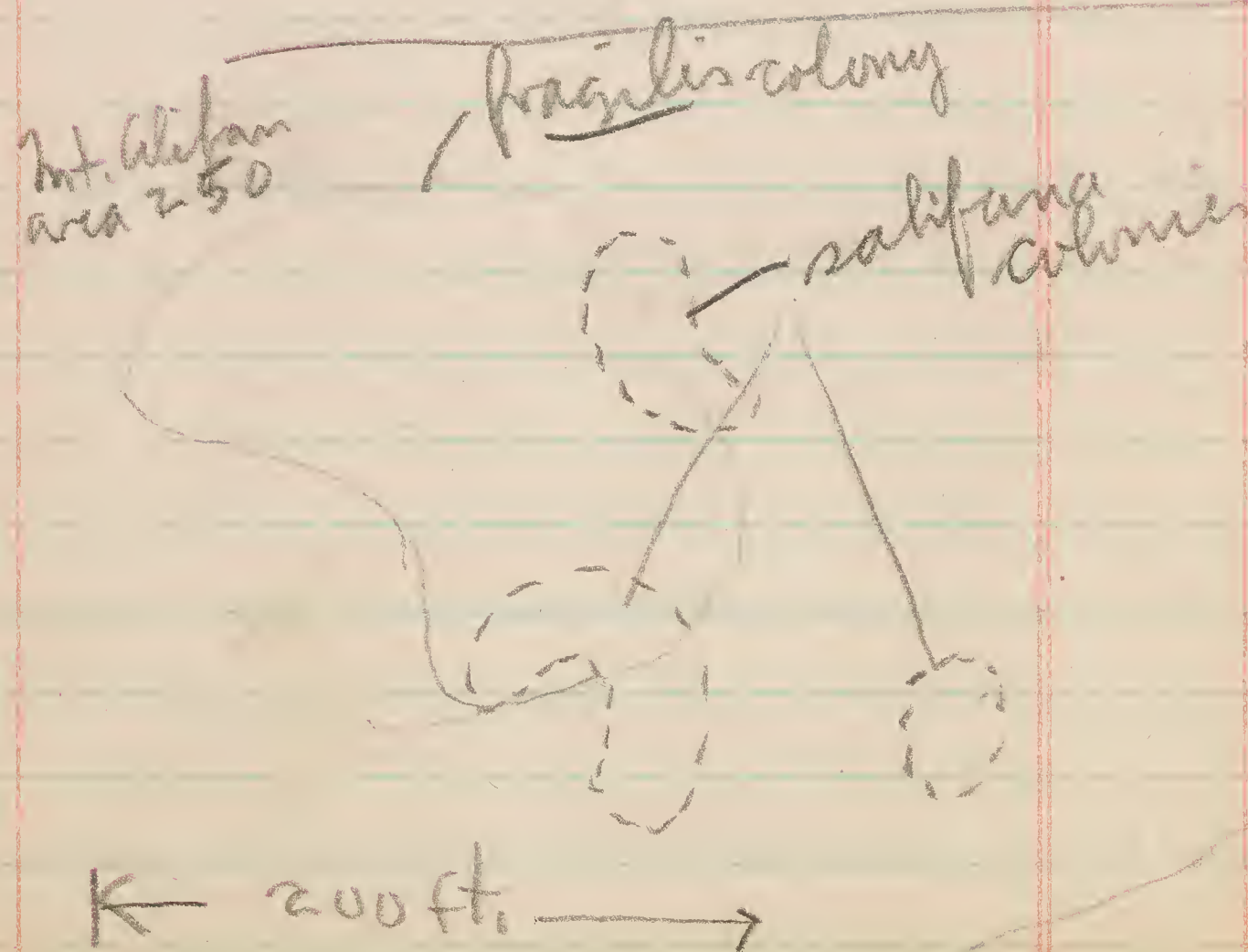
Area 2 (see 246)

248 400 yds due east of 1st peak 800 yds.
due south of Mt. Alifan, western
Guam Id., Marianas. Oct. 23, 1945.

Area 3 (see 246)

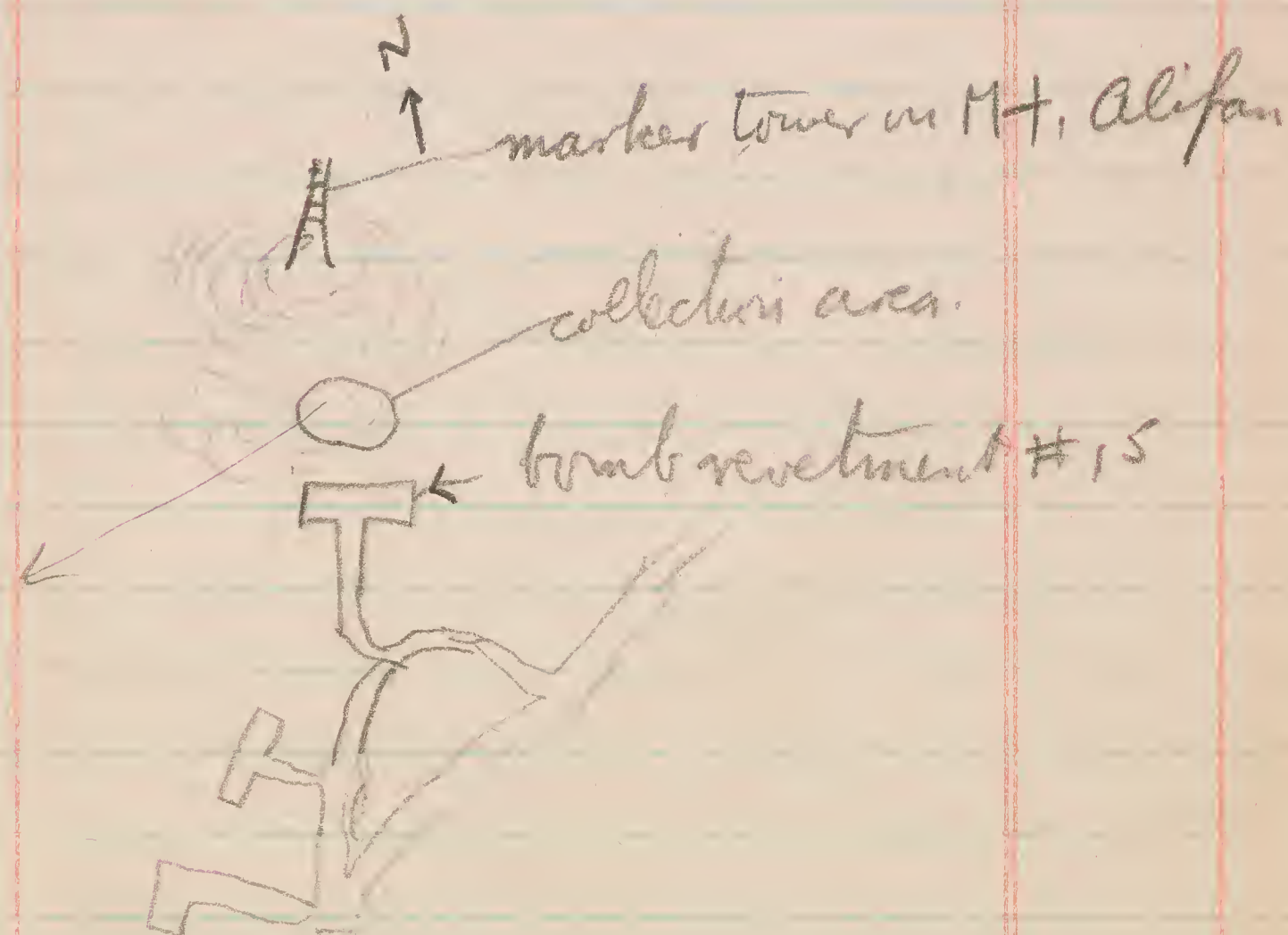
249 S.W. slope of 3rd peak 1600 yds south of Mt. Alifan, Guam Id., Marianas. Oct. 23, 1945

Area 4



250 200 feet S.S.W. of Mt. Alifan Peak, western Guam Id., Marianas. Oct. 24.

area 5



As many as 15 *P. salifana* found on one Pandanus bush.
P. fragilis very common. *P. Colony*
 100 feet by 300 feet scattered individuals
 no gibba or radiolata.

East side of
251. 2nd minor rising, 400 yds south of Mt.
Alifan Peak, western Guam, Oct. 24.

hybridization occurring?

600 yds
↓
252 East side of 1st large peak south
of Mt. Alifan Peak, western Guam,
Oct. 24, 1945

Bomb revetment # 23.

253 Thicket (200 ft alt.) $3\frac{1}{2}$ miles south
of Tenjo Mt. and bearing 120°
 $2\frac{1}{8}$ miles from Mt. Alifan peak.
Oct. 24.

254 600 yds east of 3rd major peak south of
Mt. Alifan, Guam. Oct. 26.

Small fry only.

255

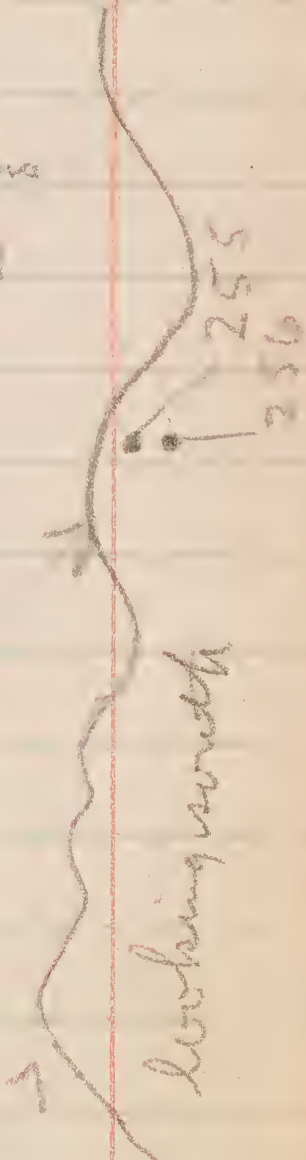
900 yds due north of Almagosa Mt.

500 ft alt, western Guam Id., Marianas

P. salifera o gibba

1 aggregation

Isolated 6 specimens



256

P. salifera + *gibba* = spec
olive brown

↓ 3 aggregations

